

# MUHAMMAD AMAS

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## OBJECTIVE

Software engineer with 2+ years of experience developing performant user-focused web applications and scalable cloud-integrated systems. Skilled in modern frameworks like React.js, Next.js, Node.js, and Express, with hands-on experience in cloud platforms (AWS, GCP), real-time databases, and advanced UI libraries.

## PROFESSIONAL EXPERIENCE

**Atompoint** Cloudnosys (B2B Cloud Security SaaS Platform)

Karachi, Pakistan

*Software Engineer*

(Oct 2023 - Present)

- Designed and implemented cloud infrastructure visualization graphs using libraries such as React Flow, Elkjs and Cytoscape.js to represent complex cloud environments.
- Visualized attack paths, blast radius and security misconfigurations within the organizational infrastructure to enhance security posture and risk assessment.
- Applied Ant Design dark theme using 'less' styles for the platform.
- Upgraded over 50 microservices to Node.js v20 from Node.js v12.
- Optimized front-end, achieving a 60% improvement in performance.
- Led the frontend transformation of the platform to a modernized version, enhancing performance, maintainability, and user experience.
- Integrated CIS, NIST, ISO 27001, GDPR, and Saudi NCA frameworks into the frontend.
- Collaborated with DevSecOps, MLOps, and cloud security teams to deliver AI-first features.
- Designed and implemented APIs to automate application provisioning, account creation, permission management, and secure access workflows across cloud environments, enabling seamless and scalable cloud integrations.

*Software Engineer Intern*

(Jul 2023 - Sep 2023)

- Resolved 20+ bugs in a month, demonstrating strong problem-solving skills.
- Integrated the chatbot into the frontend with real-time databases and server-side event-driven APIs.
- Enhanced "Cloudxray" logging with Winston & Morgan logger.
- Expanded and enhanced the "Playbook" feature for Security Orchestration, Automation, and Response, implementing advanced functionality to automate efficient remediation processes.

**VentureDive** (Software Development Company)

Karachi, Pakistan

*Web Intern*

(Feb 2023 - May 2023)

- Developed responsive web applications using React.js, Node.js and MySQL.
- Mastered Git and structured files effectively for scalable projects.
- Drafted technical documentation for the custom library in the Company Management System.

**Tezeract** (Innovative AI Solution Provider)

Karachi, Pakistan

*Frontend Intern*

(Jul 2022 - Aug 2022)

- Worked with the MERN department on web applications based on React.js.
- Converted designs to websites using HTML, CSS, JavaScript, React.js and Firebase technologies.

## EDUCATION

**University of Karachi (DCS – UBIT)**

Karachi, Pakistan

Bachelor of Science in Computer Science

**Govt. Degree College Malir Cantt.**

Karachi, Pakistan

Intermediate - Pre-Engineering

## SKILLS & COMPETENCY

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**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, Redux Toolkit, Redux-Saga, Ant Design, MUI, Tailwind CSS, Chakra UI, React Flow, ELKjs

**Technical Languages:** JavaScript, Python, SQL, HTML, CSS


**Databases:** MongoDB, Firestore, Microsoft SQL Server, PostgreSQL, Redis


**Tools:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Firebase, Jira


**Soft Skills:** Analytical skills, Leadership, Project Management, Communication and Writing


## PROJECTS

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**InsightEdu**  Developed a full-stack AI-powered EdTech platform using React, TypeScript, Tailwind, and Firebase to enable real-time attentiveness tracking and personalized analytics in online classrooms. Integrated MediaPipe to monitor student activity during sessions, and used Node.js with Express to build secure APIs for managing users, meetings, and reports. Implemented automated email notifications via Brevo, enhancing student engagement and providing actionable insights for educators.


**Chatbot**  Developed a real-time chatbot using NestJS with GraphQL subscriptions, managing user-specific conversations in Supabase and leveraging Supabase Realtime events for dynamic message updates.


**Learning Management System (LMS)**  Developed a feature-rich LMS using Chakra UI, PostgreSQL, React.js, and Express.js, enabling seamless course management, student enrolment, and progress tracking.


**FuturConnect Dashboard**  Developed a React-based web application for efficient meeting room management, utilizing Vite, Firebase, and Tailwind CSS for seamless user experience and real-time functionality.

## PROFESSIONAL CERTIFICATIONS

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**Google Cloud Digital Leader**  Gained a comprehensive understanding of Google Cloud services and their business value, including the key concepts of digital transformation, cloud computing, and modern IT infrastructures.

**McKinsey Forward Advance Level**  Achieved proficiency in strategic problem-solving and data analysis through this program, demonstrating expertise in applying business transformation strategies to drive impactful solutions.

**Back End Development and APIs**  Completed an in-depth program focused on backend development, creation and management of APIs, server-side development, and database integration using Node.js and Express.js.

**Google Cloud Associate Cloud Engineer - (ongoing)** - Currently pursuing a certification focusing on managing and deploying applications on Google Cloud, emphasizing infrastructure setup, security, and automation.

## EXTRA-CURRICULAR ACTIVITIES

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**Google Developer Student Club – UoK**

**Executive Lead**

(Sep 2023 - Oct 2023)

- Visited Ilmesters (an IB School) and conducted an info session on GDSC, STEM and Google solution challenge.

**Technical Co-Lead**

(Sep 2022 - Sep 2023)

- Conducted 3 informative sessions and workshops named "Git and GitHub 101" in 4 days, which 250+ students attended.
- Moderated "Solution Challenge Info Session" attended by over 120 students and faculty members.
- Organized and moderated recruitment drives for students and provided other learning opportunities.

## ACHIEVEMENTS

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**Gold Medalist**

**University of Karachi**

(Aug 2024)

- The 'Gold Medal' was awarded by the worthy Vice Chancellor of the University of Karachi for outstanding performance in co-curricular activities.